<table>
<thead>
<tr>
<th>Module number</th>
<th>Module name</th>
<th>Professor in charge</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Statistics</td>
<td>Prof. Franz</td>
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</tbody>
</table>

**Contents and qualification aims**

Aims of the course are the development of knowledge and abilities for applied work with statistical methods and procedures (by use of fitted software). For the contents: descriptive statistics, discrete and continuous probability distributions, parameter estimation, confidence intervals, hypothesis testing and nonparametric hypothesis tests (for example goodness-of-fit tests), correlation and regression methods.

**Teaching form**

2 hours a week, lectures, 1 hour a week, seminar

**Pre-requisite of attendance**

Basic knowledge of mathematics for engineers, in particular solving of equation systems, differential and integration calculus and probability methods.

Literature:


**Usage**

The module is a mandatory module. Skills corresponding to the module could be used for practical work, for instance for project works.

**Pre-requisite to achieve credit points**

The successful students have to pass the module exam. It consists of a written exam (90 minutes).

**Credit points and marks**

The module earns 5 cr.

**Frequency of the module**

The module is offered each winter semester.

**Work load**

The student's work load is 150 hours.

**Duration of the module**

The module is finished in one semester.